

SECTION TABLE OF CONTENTS

DIVISION 02 - SITE WORK

SECTION 02221

BEAUMONT AVENUE CLOSURE

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 GENERAL REQUIREMENTS
- 1.3 SUBMITTALS
- 1.4 DUST CONTROL
- 1.5 PROTECTION
 - 1.5.1 Protection of Personnel
 - 1.5.2 Protection of Structures
 - 1.5.3 Protection of Existing Property
 - 1.5.4 Protection of Trees
 - 1.5.5 Environmental Protection
- 1.6 BURNING
- 1.7 USE OF EXPLOSIVES

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

- 3.1 EXISTING STRUCTURES
- 3.2 UTILITIES
- 3.3 DISPOSITION OF MATERIAL
 - 3.3.1 Salvageable Items and Material
 - 3.3.1.1 Material Salvaged for the Government
 - 3.3.1.2 Material Salvaged for the Contractor
 - 3.3.2 Unsalvageable Material
- 3.4 CLEAN UP
- 3.5 PAVEMENTS

-- End of Section Table of Contents --

SECTION 02221

BEAUMONT AVENUE CLOSURE

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1

(1996) U.S. Army Corps of Engineers Safety and Health Requirements Manual

1.2 GENERAL REQUIREMENTS

The work includes removal/salvage of the existing Beaumont Avenue bridge, transport and storing of the salvaged bridge at the designated site shown on the drawings or as directed by the Contracting Officer, demolition of the existing concrete abutments, removal of aboveground debris and rubbish, and installation of the dead-end barricades as shown on the drawings. Rubbish and debris shall be removed from Government property daily, unless otherwise directed, to avoid accumulation at the demolition site. Materials that cannot be removed daily shall be stored in areas specified by the Contracting Officer. In the interest of occupational safety and health, the work shall be performed in accordance with EM 385-1-1, Section 23, Demolition, and other applicable Sections. In the interest of conservation, salvage shall be pursued to the maximum extent possible; salvaged items and materials shall be disposed of as specified.

The Contractor shall plan his construction activities to keep the existing Beaumont Avenue in-service for as long as possible. The Contractor shall notify the Contracting Officer a minimum of 45 days prior to the intended bridge removal date. The Contractor shall provide temporary barricades and/or fences to prevent people from driving into the channel, prior to the installation of the permanent dead-end barricades.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Bridge Removal Notification; G, RE

The Contractor shall notify the Contracting Office a minimum of 45 days prior to the intended bridge removal date.

Work Plan; G, RE

The procedures proposed for the accomplishment of the work. The procedures shall provide for safe conduct of the work, including procedures and methods to provide necessary supports, lateral bracing and shoring when required, careful removal and disposition of materials specified to be salvaged, protection of property which is to remain undisturbed, coordination with other work in progress, and timely disconnection of utility services. The procedures shall include a detailed description of the methods and equipment to be used for each operation, and the sequence of operations in accordance with EM 385-1-1.

Metal Beam Guard Railing; G, DE

1.4 DUST CONTROL

The amount of dust resulting from demolition shall be controlled to prevent the spread of dust to occupied portions of the construction site and to avoid creation of a nuisance in the surrounding area. Use of water will not be permitted when it will result in, or create, hazardous or objectionable conditions such as flooding and pollution.

1.5 PROTECTION

1.5.1 Protection of Personnel

During the demolition work the Contractor shall continuously evaluate the condition of the structure being demolished and take immediate action to protect all personnel working in and around the demolition site. No area, section, or component of floors, roofs, walls, columns, pilasters, or other structural element will be allowed to be left standing without sufficient bracing, shoring, or lateral support to prevent collapse or failure while workmen remove debris or perform other work in the immediate area.

1.5.2 Protection of Structures

Walls, columns, pilasters, and other structural components that are designed and constructed to stand without lateral support or shoring, and are determined to be in stable condition, shall remain standing without additional bracing, shoring, or lateral support until demolished, unless directed otherwise by the Contracting Officer. The Contractor shall ensure that no elements determined to be unstable are left unsupported and shall be responsible for placing and securing bracing, shoring, or lateral supports as may be required as a result of any cutting, removal, or demolition work performed under this contract.

1.5.3 Protection of Existing Property

Before beginning any demolition work, the Contractor shall survey the site and examine the drawings and specifications to determine the extent of the work. The Contractor shall take necessary precautions to avoid damage to existing items to remain in place, or to be reused; any damaged items shall be repaired or replaced as approved by the Contracting Officer. The Contractor shall coordinate the work of this section with all other work and shall construct and maintain shoring, bracing, and supports as required. The Contractor shall ensure that structural elements are not overloaded and shall be responsible for increasing structural supports or adding new supports as may be required as a result of any cutting, removal,

or demolition work performed under this contract.

1.5.4 Protection of Trees

Trees within the project site which might be damaged during demolition, and which are indicated to be left in place, shall be protected by a 6 foot high fence. The fence shall be securely erected a minimum of 5 feet from the trunk of individual trees or follow the outer perimeter of branches or clumps of trees. Any tree designated to remain that is damaged during the work under this contract shall be replaced in kind or as approved by the Contracting Officer.

1.5.5 Environmental Protection

The work shall comply with the requirements of Section 01354 ENVIRONMENTAL PROTECTION.

1.6 BURNING

The use of burning at the project site for the disposal of refuse and debris will not be permitted.

1.7 USE OF EXPLOSIVES

Use of explosives will not be permitted.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 EXISTING STRUCTURES

All existing structures indicated shall be removed as indicated or to 3 feet below the finish grade. Sidewalks, curbs, gutters, fence and street light bases shall be removed as necessary.

Poles, side drains, miscellaneous concrete structures, stones, grouted riprap, and steel sheetpiles shall be removed, where indicated.

3.2 UTILITIES

Disconnection, relocation, removal and coordination of utility services, with related meters and equipment, are specified in Section 01200 GENERAL REQUIREMENTS. Existing utilities shall be removed as indicated. When utility lines are encountered that are not indicated on the drawings, the Contracting Officer shall be notified prior to further work in that area.

3.3 DISPOSITION OF MATERIAL

Title to material and equipment to be demolished, except Government salvage and historical items, is vested in the Contractor upon receipt of notice to proceed. The Government will not be responsible for the condition, loss or damage to such property after notice to proceed.

3.3.1 Salvageable Items and Material

Contractor shall salvage items and material to the maximum extent possible.

3.3.1.1 Material Salvaged for the Government

The superstructure (matallic members and decking) of the existing Beaumont Avenue bridge shall be salvedged by the Contractor for the Government. The Government intends to re-install the salvedged bridge elsewhere at a later date. Therefore, the Contractor shall exercise cares and cautions in the removal process as not to damage the bridge superstructure.

3.3.1.2 Material Salvaged for the Contractor

Material salvaged by the Contractor shall be stored as approved by the Contracting Officer and shall be removed from the project site before completion of the contract. Material salvaged by the Contractor shall not be sold on the site.

3.3.2 Unsalvageable Material

Concrete, masonry, and other noncombustible material, except concrete permitted to remain in place, shall be disposed of in the approved disposal areas. Combustible material shall be disposed of off the site.

3.4 CLEAN UP

Debris and rubbish shall be removed from basement and similar excavations. Debris shall be removed and transported in a manner that prevents spillage on streets or adjacent areas. Local regulations regarding hauling and disposal shall apply.

3.5 PAVEMENTS

Existing pavements designated for removal shall be saw cut and removed in accordance with the details shown on the drawings and to the limits and depths indicated on the drawings.

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